Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A digital delay line for use in a 3D audio sound system, comprising:

a first digital delay module providing a choice of <u>digital</u> delay within a first <u>digital</u> resolution for use in said 3D audio sound system, said first <u>digital</u> resolution being an <u>digital</u> integer value; and

a second digital delay module in series with said first <u>digital</u> delay module, said second digital delay module providing a choice of a plurality of additional <u>digital</u> fractional delays, each of said additional <u>digital</u> fractional delays being less than said first <u>digital</u> resolution;

wherein said first <u>digital</u> resolution is added to said additional fractional <u>digital</u> delays for use in said 3D audio sound system to create a perceived positional sound.

2. (original) The digital delay line for use in a 3D audio sound system according to claim 1, wherein said first delay module comprises:

a first-in, first out buffer.

3. (currently amended) The digital delay line for use in a 3D audio sound system according to claim 1, wherein said second delay module comprises:

a choice of any one of a plurality of polyphase filters, each of said polyphase filters providing an additional <u>digital</u> fraction delay less than said first <u>digital</u> resolution.

4. (original) The digital delay line for use in a 3D audio sound system according to claim 1, further comprising:

a localization control module comprising an interaural time delay look-up table associating desired sound source locations with a particular interaural time delay.

5. (currently amended) The digital delay line for use in a 3D audio sound system according to claim 4, wherein said localization control module further comprises:

an integer and fractional <u>digital</u> delay selector adapted to determine a first digital time delay for use by said first <u>digital</u> delay module and said additional <u>digital</u> fractional delay for use by said second digital delay module.

6. (currently amended) The digital delay line for use in a 3D audio sound system according to claim 1, wherein:

said first <u>digital</u> resolution is based on a sampling rate of a digital audio signal.

7. (currently amended) A method for providing an interaural time delay in a digital 3D sound system, comprising:

selecting one of a plurality of available first digital time delays having a first <u>digital</u> resolution between each of said plurality of available first <u>digital</u> time delays, said first <u>digital</u> resolution being an <u>digital</u> integer value providing a rough estimate of a desired interaural time delay;

additionally selecting one of a plurality of available second digital time delays, each of said plurality of available second <u>digital</u> time delays being a <u>digital</u> fractional delay providing a highly refined additional <u>digital</u> time delay; and

adding said selected first digital time delay and said second digital time delay to provide a desired interaural time delay for use in said digital 3D sound system to create a perceived positional sound.



8. (currently amended) The method for providing an interaural time delay in a digital 3D sound system according to claim 7, wherein:

said desired interaural time delay relates to a desired interaural time delay for one ear of a listener; and

said first <u>digital</u> time delay relates to a desired interaural time delay for a second ear of said listener.

9. (currently amended) The method for providing an interaural time delay in a digital 3D sound system according to claim 7, wherein:

said plurality of available <u>digital</u> time delays are based on a sampling rate of a digital audio signal.

10. (original) The method for providing an interaural time delay in a digital 3D sound system according to claim 7, further comprising:

fixing a first interaural time delay with respect to a first ear of a listener; and

providing said desired interaural time delay with respect to a second ear of said listener.

11. (currently amended) Apparatus for providing an interaural time delay in a digital 3D sound system, comprising:

means for selecting one of a plurality of available first digital time delays having a first <u>digital</u> resolution between each of said plurality of available first <u>digital</u> time delays, said first <u>digital</u> resolution being an <u>digital</u> integer value providing a rough estimate of a desired interaural time delay;

means for additionally selecting one of a plurality of available second digital time delays, each of said plurality of available second <u>digital</u> time delays being a <u>digital</u> fractional delay providing a highly refined additional interaural time delay; and

means for adding said selected first digital time delay and said second digital time delay to provide a desired interaural time delay for use in said digital 3D sound system to create a perceived positional sound.

12. (currently amended) The apparatus for providing an interaural time delay in a digital 3D sound system according to claim 11, wherein:

said desired interaural time delay relates to a desired interaural time delay for one ear of a listener; and

said first <u>digital</u> time delay relates to a desired interaural time delay for a second ear of said listener.

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13. (currently amended) The apparatus for providing an interaural time delay in a digital 3D sound system according to claim 11, wherein:

said plurality of available <u>digital</u> time delays are based on a sampling rate of a digital audio signal.

14. (original) The apparatus for providing an interaural time delay in a digital 3D sound system according to claim 11, further comprising:

means for fixing a first interaural time delay with respect to a first ear of a listener; and

means for providing said desired interaural time delay with respect to a second ear of said listener.